

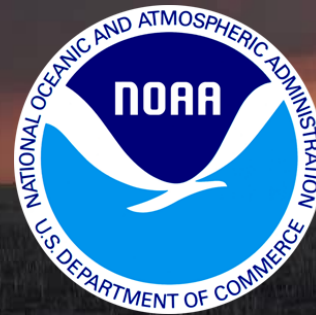
National Weather Service Milwaukee

Severe Weather Safety Class

2017

#skywarn17

Video: Tempest Tours

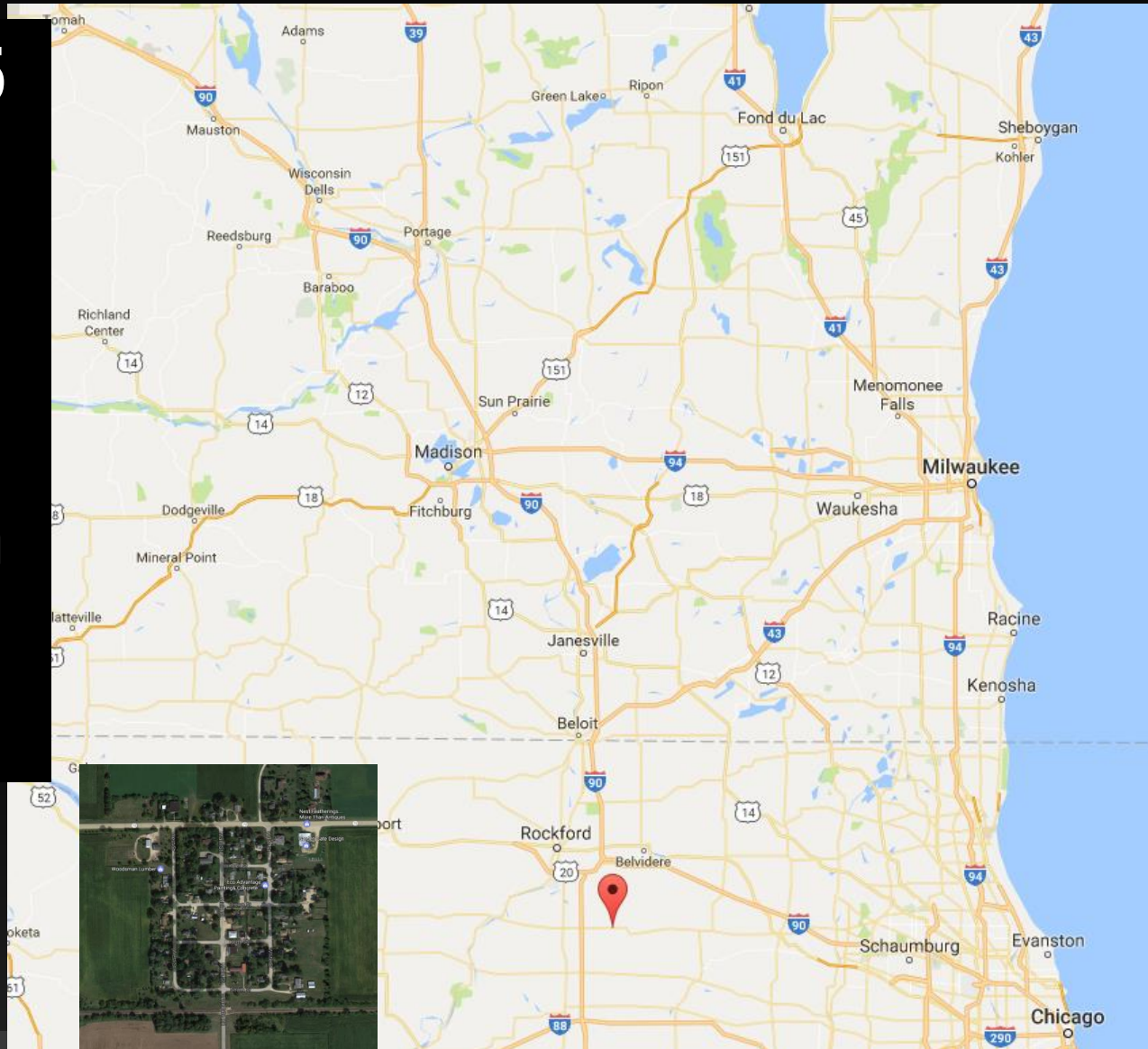


Why are we here?

April 9th, 2015
Fairdale, IL

EF-4 Tornado

**Video by Clem
Schultz**



National Weather Service Milwaukee/Sullivan

Why are we here?



National Weather Service Milwaukee/Sullivan

Why are we here?



National Weather Service Milwaukee/Sullivan

Why are we here?



National Weather Service Milwaukee/Sullivan

Severe weather occurs in WI

Tornado Paths: 1950-2015

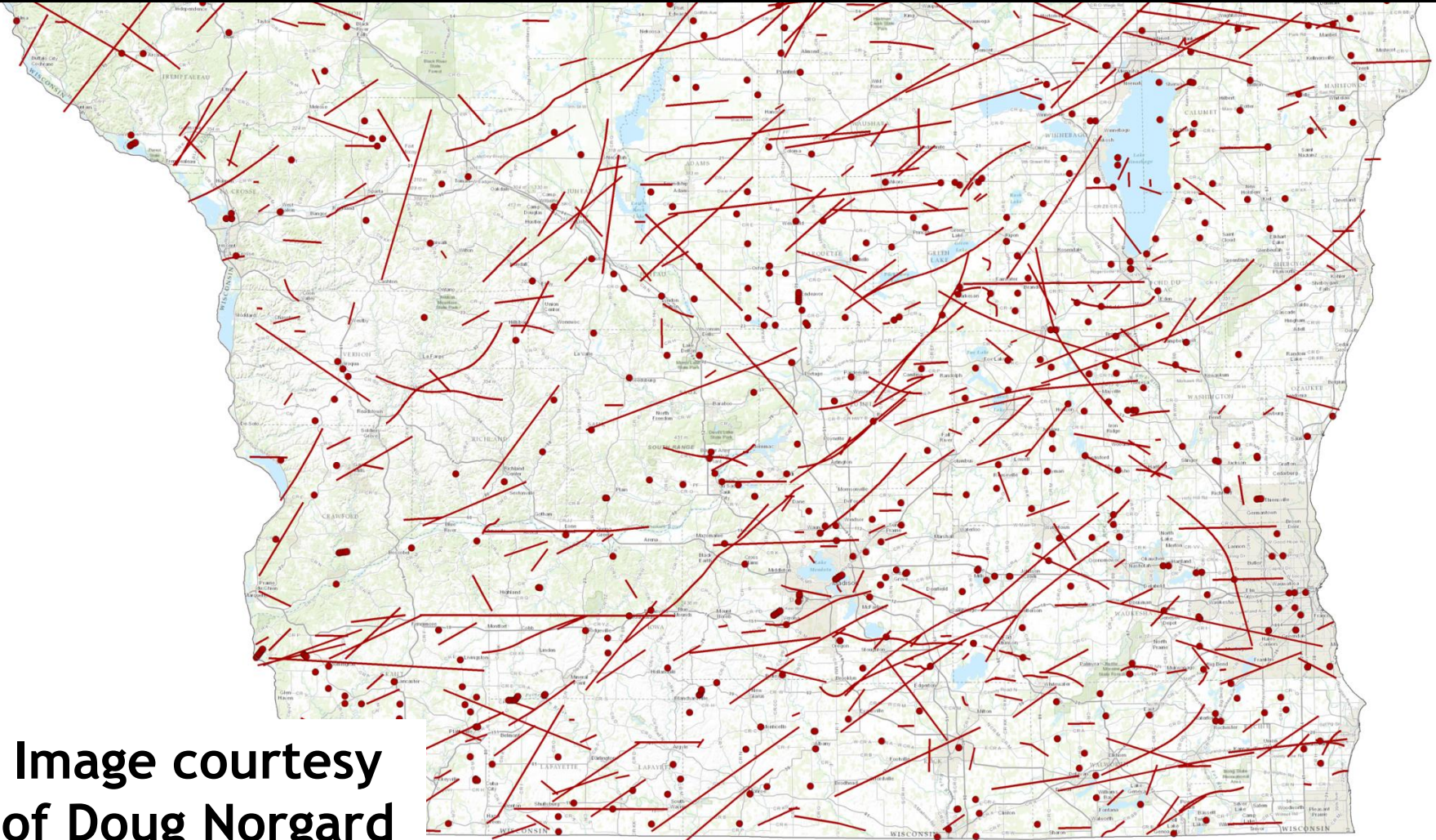


Image courtesy
of Doug Norgard



National Weather Service Milwaukee/Sullivan



2016 Southeast Wisconsin Tornadoes

Updated 12/31/2016

EF RATING:



Numbers on map denote order of occurrence within the state.

Complacency?

Wisconsin Tornadoes Since 2012

EF0: 37

EF1: 30

EF2: 6

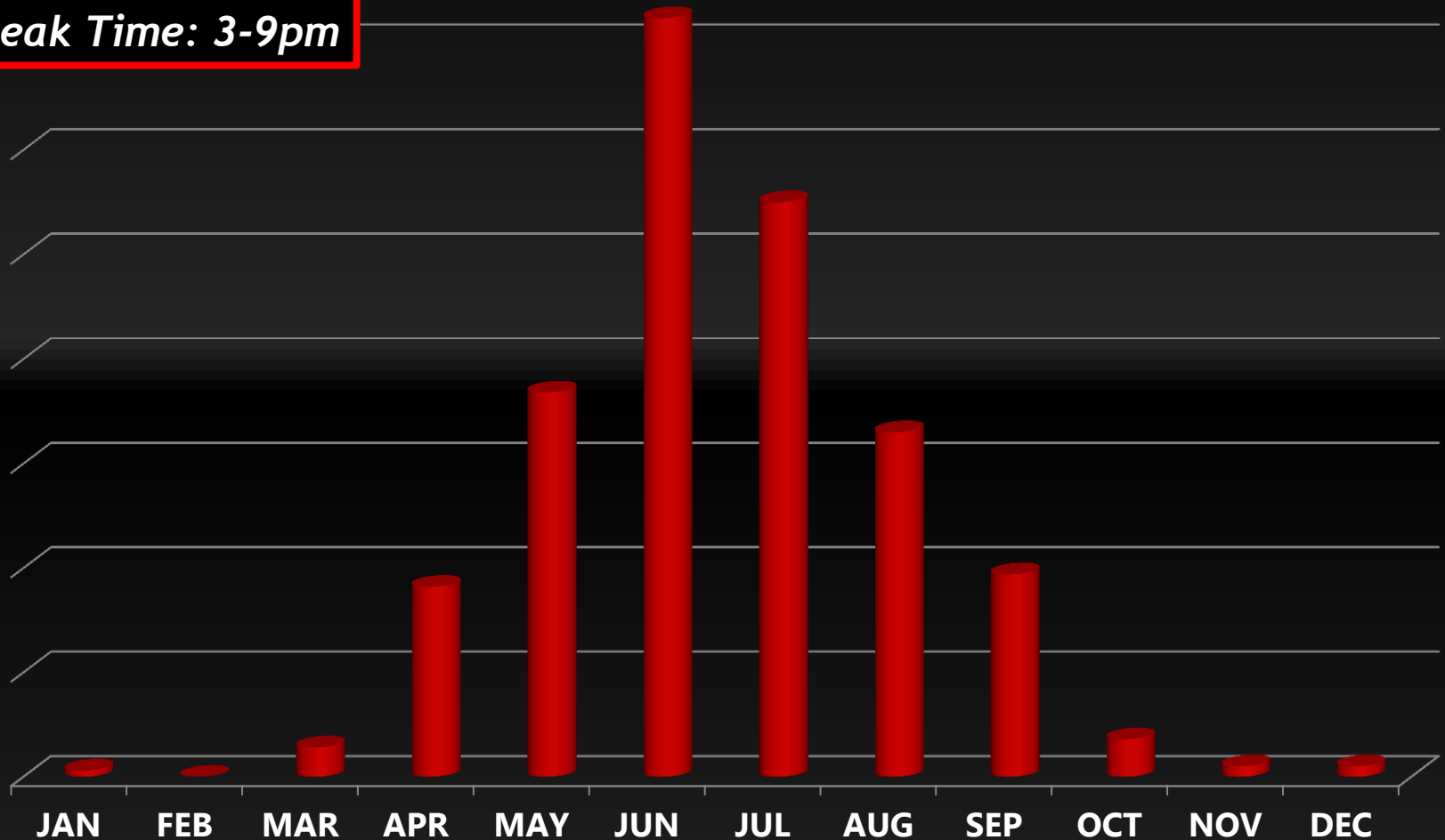
EF3: 1

EF4: 0

EF5: 0

Wisconsin Tornadoes by Month

Peak Time: 3-9pm



National Weather Service Milwaukee/Sullivan

It isn't a matter of if, but when.



National Weather Service Milwaukee/Sullivan

Tornado Safety

Step 1: Create a plan

Step 2: Prep a supply kit

Step 3: Stay Informed

95% of WI Tornadoes are EF0, 1, or 2

EF 0	• Up to 85 mph
EF 1	• 86-110 mph
EF 2	• 111-135 mph
EF 3	• 136-165 mph
EF 4	• 166-200 mph
EF 5	• Over 200 mph

75% of US
tornado
fatalities

Stoughton EF-3
August 18, 2005



Picture: Colin McDermott



National Weather Service Milwaukee/Sullivan

Step 1: Create a plan

Put together a family emergency plan.

-Discuss how to get to a safe place.

-How to communicate with each other.
Text, don't call.

-Where to meet up after the event is over.

-Pick an out of state family member or friend to act as the family contact.



Where is a safe place?

- Away from windows.
- Lowest level of a sturdy building.



TORNADO WARNING



National Weather Service Milwaukee/Sullivan

Higher Risk for Injury/Death-Tornado

- Being outside
- Being in your vehicle
- In a manufactured home
- In a shed or storage facility



Last Tornado Fatality in Wisconsin?

August 19, 2011

Wausau EF1

Occupant in mobile home



National Weather Service Milwaukee/Sullivan

No basement?

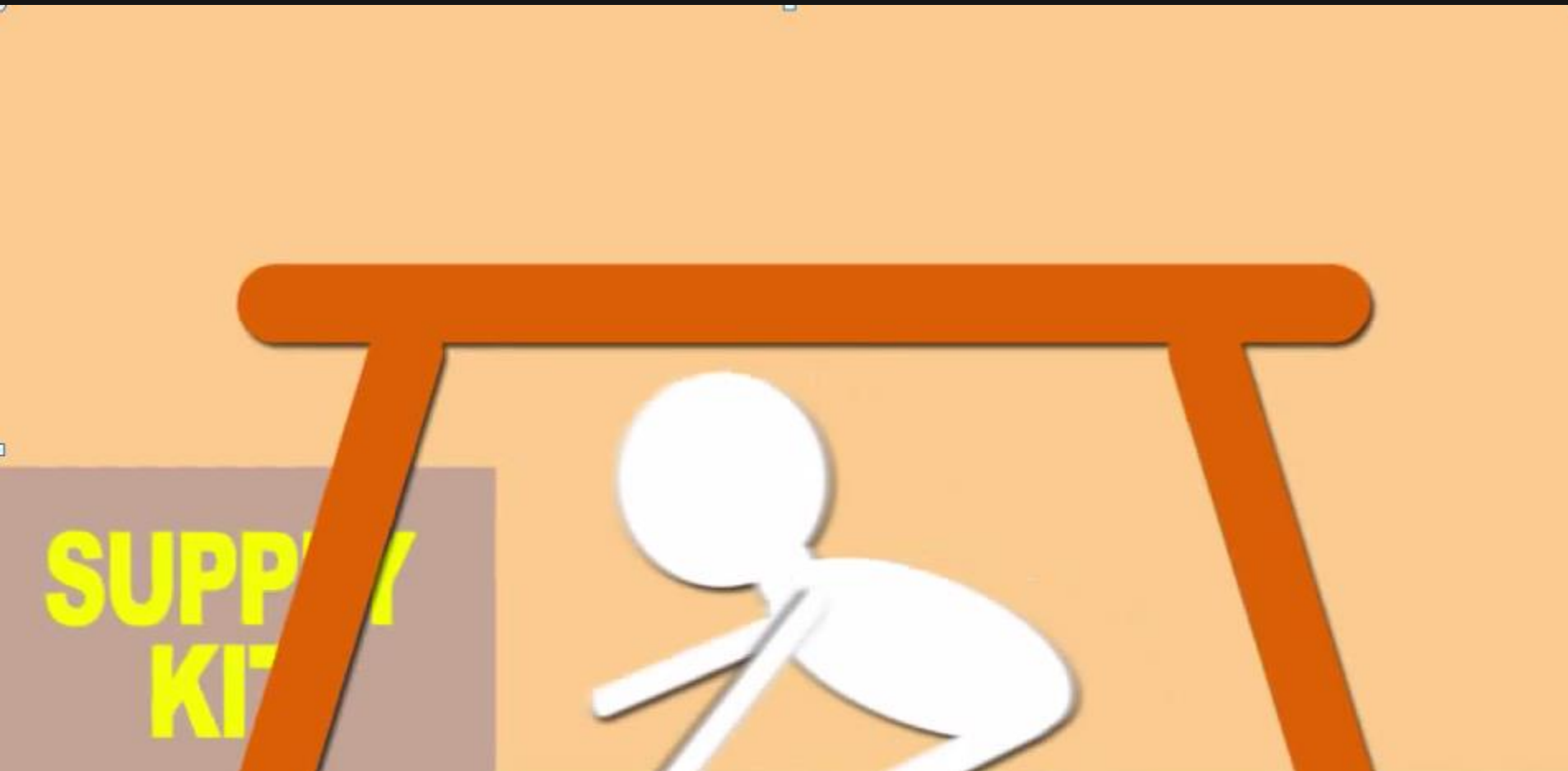
- Go to the center of the building.
- Put as many walls between you and the outside of the building.



National Weather Service Milwaukee/Sullivan

Get under a table

- Cover yourself with pillows/blankets.
- Use arms to cover your head and neck.



National Weather Service Milwaukee/Sullivan

In Your Car?

BEST: Drive to a shelter immediately.

Worst case scenario: Two Options

Option 1: Stay in Car

Lean Down/Cover Head

PRO: May not get hit by debris

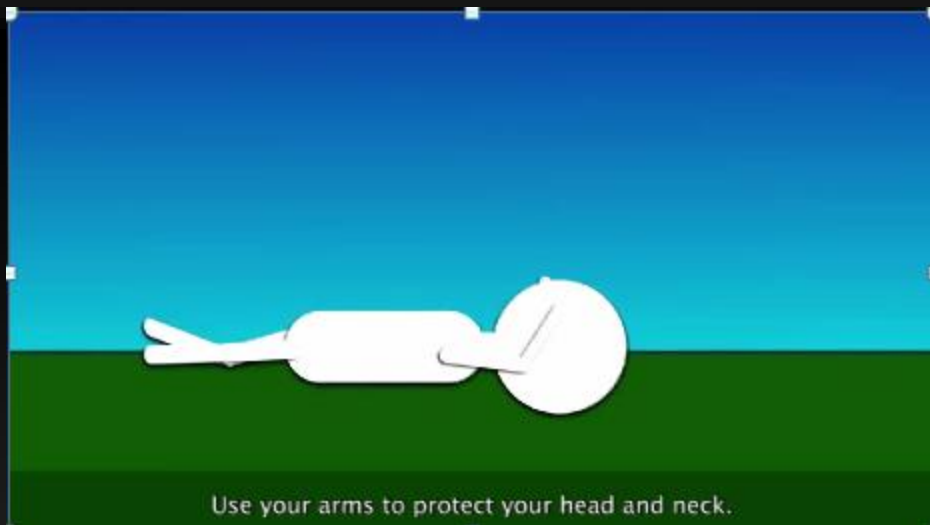
CON: Car can be tumbled/lofted

Option 2: Get out of car

Get in ditch/low spot

PRO: Car is easier to loft/tumble

CON: Possibly exposed to debris



National Weather Service Milwaukee/Sullivan

What not to do!

Do NOT park underneath an overpass.
-Blocks traffic. Acts as a wind tunnel.



National Weather Service Milwaukee/Sullivan

What not to do!

May 3, 1999 OK City F5



Image courtesy Dan Miller, NWS Norman

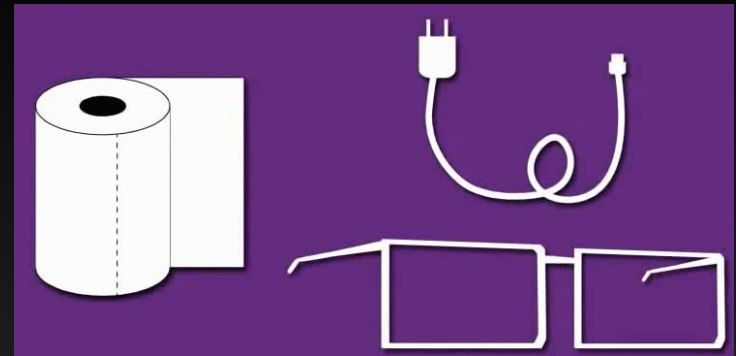
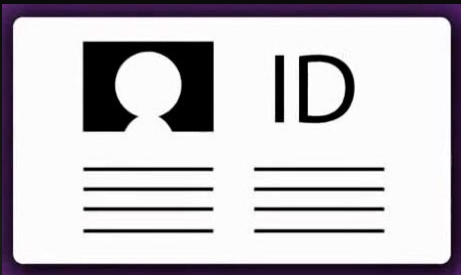
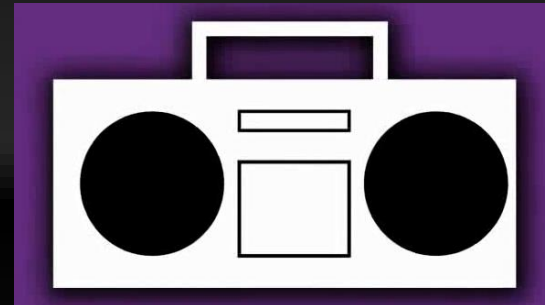
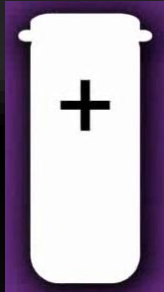
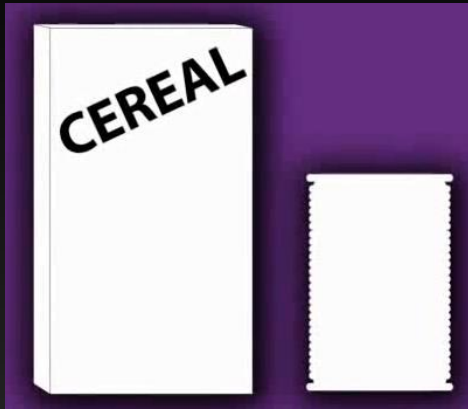


National Weather Service Milwaukee/Sullivan

Step 2: Prep a supply kit

Tornado Watch at Night?

- Charge Cell Phone
- Plug in Weather Radio
- Keep Shoes/Boots by bed



What not to do!

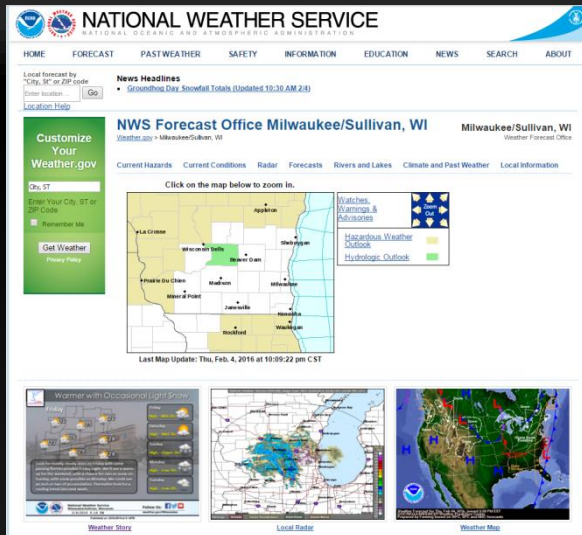


National Weather Service Milwaukee/Sullivan

Step 3: Stay Informed

*How do you know if storms are going to occur?
Where can you get information from?*

- Have a good source (NWS, Media, Private)
- Use Technology (Internet, mobile, radio, tv)
- Watch for updates



weather.gov/milwaukee



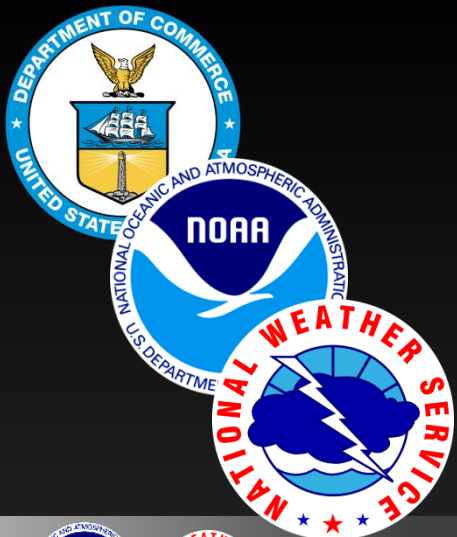
innovation.srh.noaa.gov/NWSwidget



National Weather Service Milwaukee/Sullivan

National Weather Service Milwaukee

- 24 Hour Operations
- 23 Dedicated Staff Members
- ❖ Severe Weather Warnings
- ❖ Public Forecasts
- ❖ Aviation Forecasts
- ❖ Marine Forecasts
- ❖ Hydrology
- ❖ Fire Weather Forecasts



National Weather Service Milwaukee/Sullivan

weather.gov/milwaukee

The screenshot shows the NWS Milwaukee/Sullivan website. At the top is the NOAA logo and the text "NATIONAL WEATHER SERVICE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION". Below this is a navigation bar with links: HOME, FORECAST, PAST WEATHER, SAFETY, INFORMATION, EDUCATION, NEWS, SEARCH, and ABOUT. A "Local forecast by 'City, ST' or ZIP code" section includes a search box and a "Go" button. To the right, "News Headlines" lists "Groundhog Day Snowfall Totals (Updated 10:30 AM 2/4)". The main heading is "NWS Forecast Office Milwaukee/Sullivan, WI" with the address "Milwaukee/Sullivan, WI" and "Weather Forecast Office". Below this are links for "Current Hazards", "Current Conditions", "Radar", "Forecasts", "Rivers and Lakes", "Climate and Past Weather", and "Local Information". A map of Wisconsin is displayed with a "Click on the map below to zoom in." instruction. To the right of the map are links for "Watches, Warnings & Advisories", "Hazardous Weather Outlook", and "Hydrologic Outlook". A "Customize Your Weather.gov" sidebar on the left includes a "City, ST" input field, a "Remember Me" checkbox, and a "Get Weather" button. At the bottom, there are three sections: "Warmer with Occasional Light Snow" with a 5-day forecast, "Local Radar", and "Weather Map".

- Watches/Warnings
- Hazardous Weather Outlooks
- Weather Story
- Top News
- Radar Imagery
- River Levels/Flooding
- Much more!



/NWSMilwaukee



@NWSMKX



/NWSMilwaukee

weather.gov/subscribe (**ALERT** Options)

National Weather Service Milwaukee/Sullivan



innovation.srh.noaa.gov/NWSwidget


U.S. Cellular 3G 11:19 AM 95%


National Weather Service


EXPERIMENTAL [Feedback](#)

NWS forecast for
Oconomowoc WI

[Use Current Location](#)

Enter new location... [Go](#) 

Hazardous Weather Outlook 



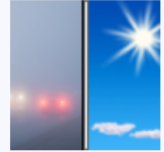
Forecast at a Glance 


now @ Watertown
4 Nov 10:35 am CDT. Elevation: 814ft

Fog
43°F

Dewpoint 43°F
Humidity 100%
Wind S 3 MPH
Visibility 0.25 mi.


[3-day history](#)

Today	Tonight	Saturday
		
Dense Fog High: 60°F	Clear Low: 42°F	Patchy Fog then Sunny High: 65°F

Detailed Forecast 



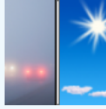
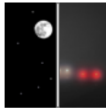
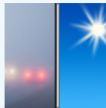

U.S. Cellular 3G 11:19 AM 95%


National Weather Service


Detailed Forecast 


[12 Hour](#) [24 Hour](#) [48 Hour](#) [7 Day](#)


7-Day Forecast

Today		Widespread dense fog, mainly before 1pm. Otherwise, sunny, with a high near 60. Calm wind becoming southwest around 5 mph in the afternoon.
Tonight		Clear, with a low around 42. Southwest wind around 5 mph becoming calm.
Saturday		Patchy fog before 9am. Otherwise, sunny, with a high near 65. West wind around 5 mph.
Saturday Night		Patchy fog between midnight and 2am. Otherwise, mostly clear, with a low around 43. Calm wind.
Sunday		Patchy fog before 8am. Otherwise, sunny, with a high near 66. Calm wind becoming southwest around 5 mph in the afternoon.
Sunday Night		Mostly clear, with a low around 43. South wind around 5 mph.



Radar 


Satellite 





Forecast Discussion 





More 






National Weather Service
Southern Region Headquarters
819 Taylor Street, Room 10A06
Fort Worth, TX 76102

 **AirDrop.** Share instantly with people nearby. If they turn on AirDrop from Control Center on iOS or from Finder on the Mac, you'll see their names here. Just tap to share.

 Message  Mail  Reminders  Notes

 Add to Favorites  Add to Bookmark  Add to Reading List  Add to Home Screen

  **National Weather Service Milwaukee/Sullivan**

Severe Weather Forecasts

Outlooks (Forecasts):

- Any potential hazards over the next week.
- Hazardous Weather Outlook: Milwaukee NWS
- Convective Outlook: Storm Prediction Center

Watches:






- Conditions are forecast to occur within the next 2-6 hours.
- Severe Thunderstorm, Tornado.
- Flash Flood Watches issued further in advance.

Warnings:

- Conditions are occurring now!
- Severe: >58mph winds, Hail larger than quarters (>1")
- Tornado: Radar indicated or reported by person.
- Flash Flood: Rapid rise of creeks/streams.



Thunderstorm Risk Categories via SPC

THUNDERSTORMS (no label)	1 - MARGINAL (MRGL)	2 - SLIGHT (SLGT)	3 - ENHANCED (ENH)	4 - MODERATE (MDT)	5 - HIGH (HIGH)
No severe* thunderstorms expected	Isolated severe thunderstorms possible	Scattered severe storms possible	Numerous severe storms possible	Widespread severe storms likely	Widespread severe storms expected
Lightning/flooding threats exist with <u>all</u> thunderstorms	Limited in duration and/or coverage and/or intensity	Short-lived and/or not widespread, isolated intense storms possible	More persistent and/or widespread, a few intense	Long-lived, widespread and intense	Long-lived, very widespread and particularly intense
					
<ul style="list-style-type: none"> • Winds to 40 mph • Small hail 	<ul style="list-style-type: none"> • Winds 40-60 mph • Hail up to 1" • Low tornado risk 	<ul style="list-style-type: none"> • One or two tornadoes • Reports of strong winds/wind damage • Hail ~1", isolated 2" 	<ul style="list-style-type: none"> • A few tornadoes • Several reports of wind damage • Damaging hail, 1 - 2" 	<ul style="list-style-type: none"> • Strong tornadoes • Widespread wind damage • Destructive hail, 2" + 	<ul style="list-style-type: none"> • Tornado outbreak • Derecho



Hazardous Weather Outlook

via NWS Milwaukee

- Provides “heads up” to spotters.
- Issued daily
 - Around 4-6am.
 - Updated, as needed, through the day.
- 7-day outlook.

HAZARDOUS WEATHER OUTLOOK

NATIONAL WEATHER SERVICE MILWAUKEE/SULLIVAN WI

338 PM CDT THU APR 9 2015

WIZ046-047-051-052-056>060-062>072-102045-

MARQUETTE-GREEN LAKE-FOND DU LAC-SHEBOYGAN-SAUK-COLUMBIA-DODGE-

WASHINGTON-OZAUKEE-IOWA-DANE-JEFFERSON-WAUKESHA-MILWAUKEE-

LAFAYETTE-GREEN-ROCK-WALWORTH-RACINE-KENOSHA-

338 PM CDT THU APR 9 2015

THIS HAZARDOUS WEATHER OUTLOOK IS FOR PORTIONS OF EAST CENTRAL WISCONSIN...SOUTH CENTRAL WISCONSIN AND SOUTHEAST WISCONSIN.

.DAY ONE...TONIGHT

A TORNADO WATCH IS IN EFFECT FOR PORTIONS OF SOUTH CENTRAL AND SOUTHEAST WISCONSIN THROUGH 11PM. LARGE HAIL...DAMAGING WINDS AND TORNADOES ARE ALL POSSIBLE.

.DAYS TWO THROUGH SEVEN...FRIDAY THROUGH THURSDAY

THERE IS A CHANCE OF THUNDERSTORMS SUNDAY EVENING.

.SPOTTER INFORMATION STATEMENT...

SPOTTER ACTIVATION IS NEEDED THIS AFTERNOON AND EVENING.



National Weather Service Milwaukee/Sullivan

Hazardous Weather Outlook

via NWS Milwaukee

NWS Forecast

[Weather.gov](#) > Milwaukee/Sullivan

Current Hazards **Current Outlooks**

Storm and Precipitation Reports

Outlooks

Submit a Storm Report

NATIONAL WEATHER SERVICE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

HOME FORECAST PAST WEATHER SAFETY INFORMATION EDUCATION NEWS SEARCH ABOUT

OUTLOOKS
Milwaukee, WI

Change office

[Share](#) | [f](#) [t](#) [e](#) [v](#) [m](#)

[Local Hazardous Weather Outlook](#)

Severe Weather

Day 1 Day 2 Day 3

Mesoscale Discussion

SPC Activity Chart

SPC Mesoanalysis Chart

Showing a 1 hour radar loop, the current Day 1 convective outlook, and all active watches.

Click on the image for a detailed look at severe weather parameters for various sectors across the county.

Prairie Du Chien

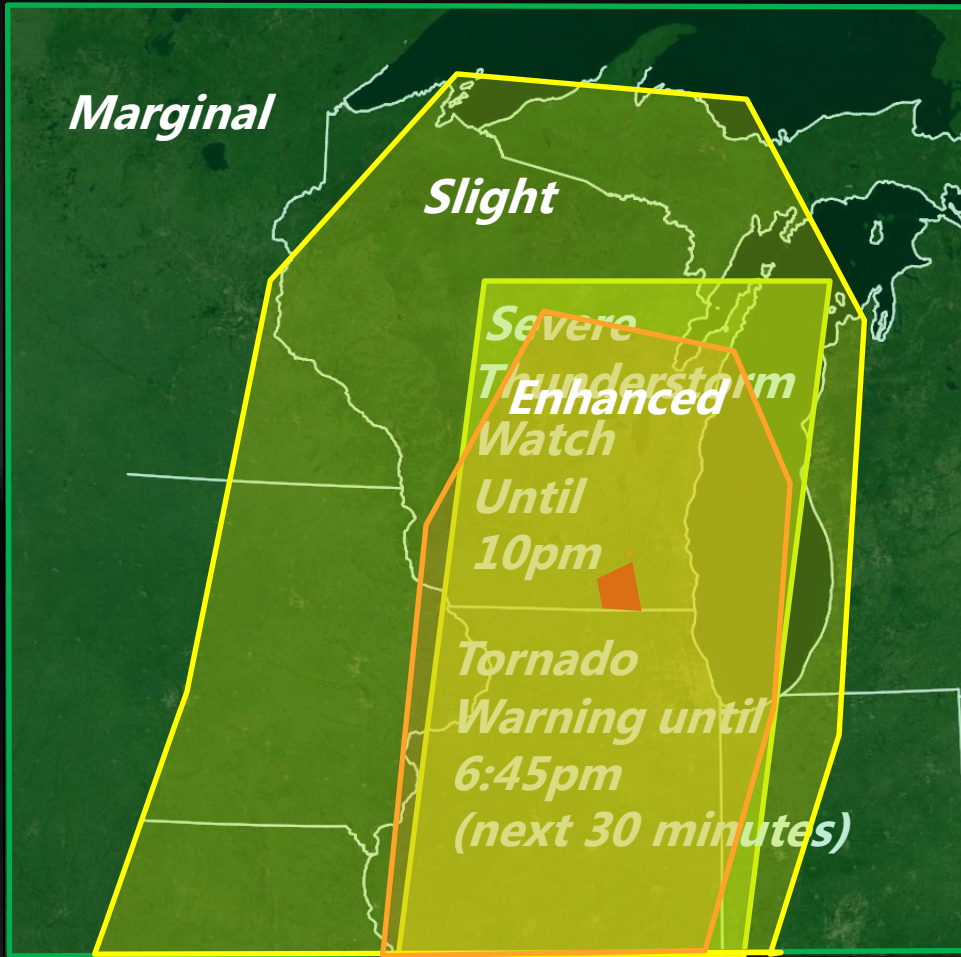
Mineral Point

Madison



National Weather Service Milwaukee/Sullivan

Severe Weather Forecasts



- **Outlook**
 - Several days in advance.
 - Graphical & Text.
- **Watch**
 - 2-6 Hours in advance.
 - Conditions becoming likely.
- **Warning**
 - 10-60 min in advance.
 - Storm/county size.



Wireless Emergency Alerts



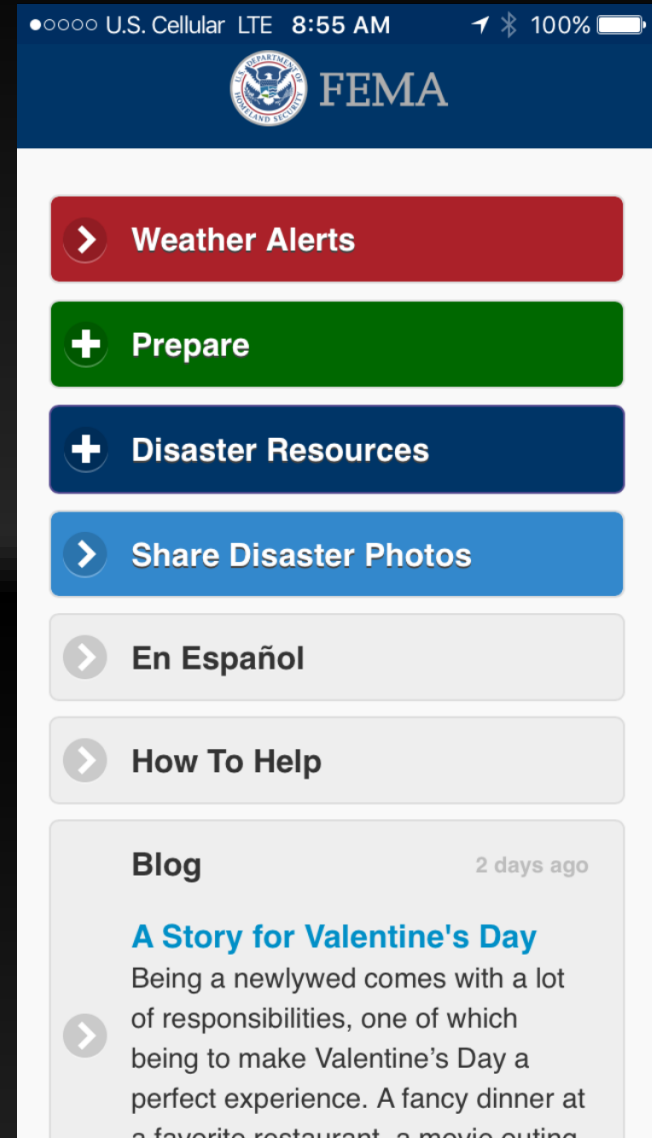
- Tornado Warnings
- Flash Flood Warnings
- Future:
 - High End Severe?

Potential Changes

- Expanding character limit
- Maps/geo-targeting
- Testing

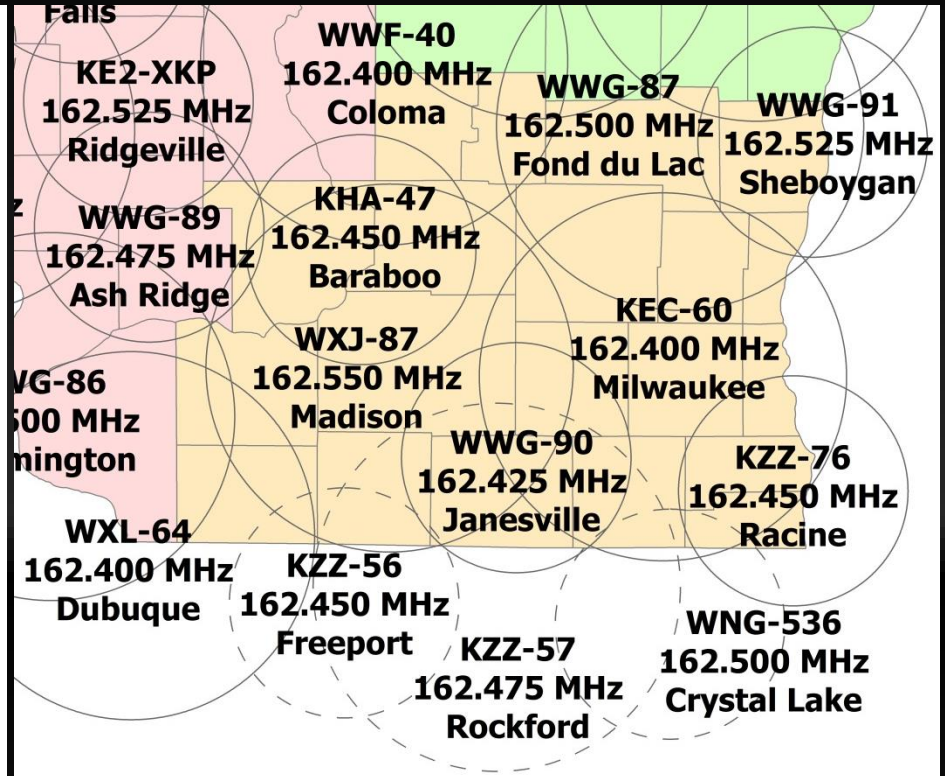
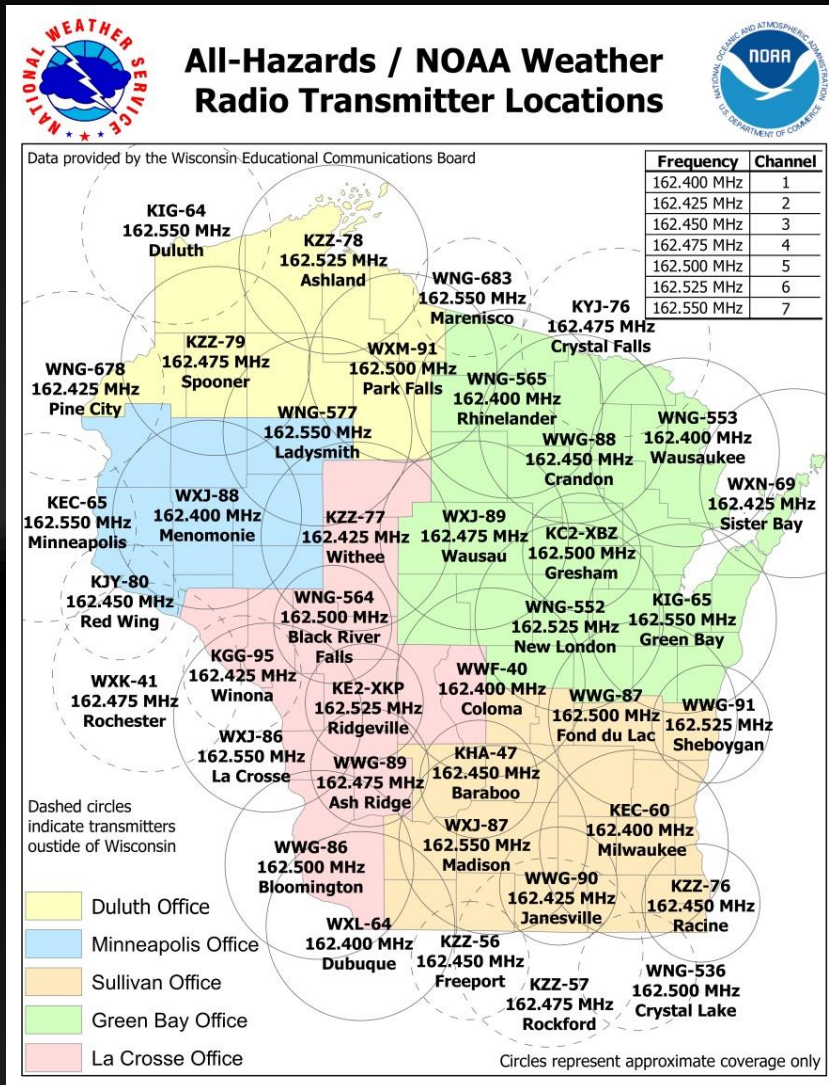


FEMA App



National Weather Service Milwaukee/Sullivan

NOAA Weather Radio



Frequency	Channel
162.400 MHz	1
162.425 MHz	2
162.450 MHz	3
162.475 MHz	4
162.500 MHz	5
162.525 MHz	6
162.550 MHz	7

Outdoor Warning Sirens



- Meant as an alert for people that are outdoors.
- Not intended to wake you up.
 - A/C, Windows closed
- Why they are sounded varies by jurisdiction, check with local community.



Impact Based Warnings

All tornadoes are dangerous, but not all tornadoes are created equal!



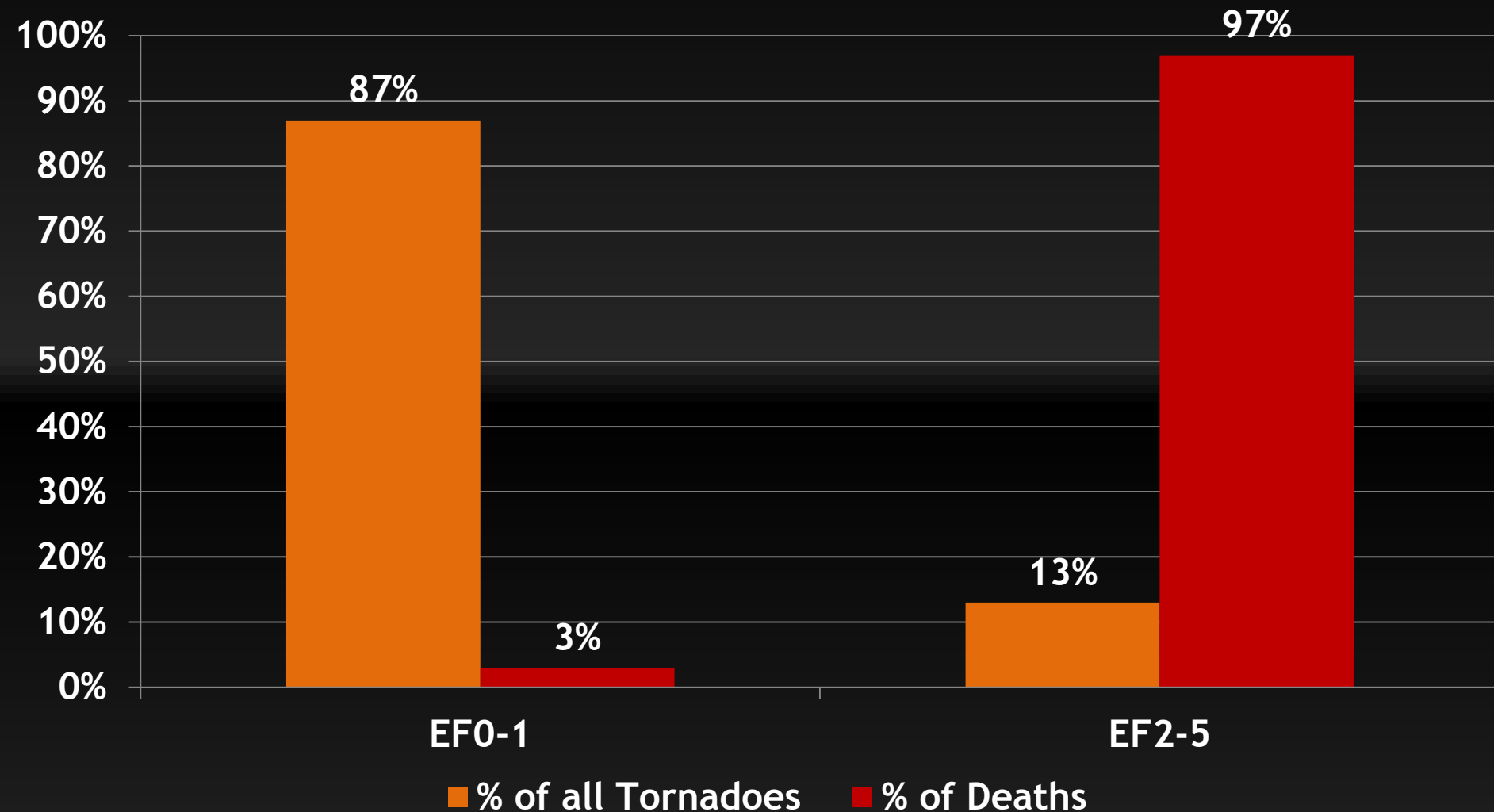
To help pick out the most dangerous Tornado Warnings, look the tags at the bottom of warnings.



National Weather Service Milwaukee/Sullivan

Do these tornadoes deserve the same warning?

Based on 10,000 Tornadoes from 2007-2015



National Weather Service Milwaukee/Sullivan

Impact Based Warnings

Tornado Warning
Base
Considerable
Catastrophic

Severe Thunderstorm Warning		
Hail	Wind	Tornado
1" - 1.25"	60 mph	Possible
1.5" - 2.5"	70 mph	
Giant Hail; > 2.5"	80-90 mph	
	100 mph	



Impact Based Warnings

Tornado Warning

Base

Considerable

Catastrophic



TORNADO...RADAR INDICATED or OBSERVED

Impact Statement

Flying debris will be dangerous to those caught without shelter. Mobile homes will be damaged or destroyed. Damage to roofs, windows and vehicles will occur. Tree damage is likely.

- Used the vast majority of the time.
- Used when tornado damage is *possible*.
- Tornado duration is expected to be short-lived.



National Weather Service Milwaukee/Sullivan

Impact Based Warnings

Tornado Warning

Base

Considerable

Catastrophic

Tornado Warning
National Weather Service Milwaukee/Sullivan WI
330 PM CST February 27 2017

The National Weather Service in Milwaukee/Sullivan has issued a

- * Tornado Warning for...
Western Jefferson County in southeastern Wisconsin
- * Until 400 PM CST
- * At 330 PM CST...a severe thunderstorm capable of producing a
tornado was located near Johnson Creek, moving east at 15 mph.

HAZARD...Tornado

SOURCE...Radar indicated rotation.

IMPACT...Flying debris will be dangerous to those caught without
shelter. Mobile homes will be damaged or destroyed.
Damage to roofs, windows, and vehicles will occur. Tree
damage is likely.

- * This tornadic thunderstorm will be near...
Sullivan around 345 PM CST.

PRECAUTIONARY/PREPAREDNESS MEASURES
TAKE COVER NOW!.....

&&

LAT...LON XXXX XXXX XXXX XXXX
TIME...MOT...LOC... XXXXZ XXXDEG 15KT XXXX XXXX

TORNADO...RADAR INDICATED (or OBSERVED)
~~TORNADO DAMAGE THREAT...~~
HAIL..."SIZE"IN



National Weather Service Milwaukee/Sullivan

Impact Based Warnings

Tornado Warning

Base

Considerable

Catastrophic



- Used rarely.
- Used when radar or other observational evidence shows a tornado is occurring.
- Used when tornado is capable of producing considerable damage

Impact Statement

You are in a life threatening situation. Flying debris may be deadly to those caught without shelter. Mobile homes will be destroyed. Considerable damage to homes, businesses and vehicles is likely and complete destruction is possible.



Impact Based Warnings

Tornado Warning

Base

Considerable

Catastrophic

Tornado Warning
National Weather Service Milwaukee/Sullivan
340 PM CST Feb 27 2017

The National Weather Service in Milwaukee/Sullivan has issued a

- * Tornado Warning for...
Eastern Jefferson County in southeastern Wisconsin
- * Until 430 PM CST
- * At 340 PM CST...a confirmed large and extremely dangerous tornado was located near Jefferson, moving east at 15mph.

This is a PARTICULARLY DANGEROUS SITUATION. TAKE COVER NOW!

HAZARD...Damaging tornado.

SOURCE...Weather spotters confirmed tornado.

IMPACT...You are in a life-threatening situation. Flying debris may be deadly to those caught without shelter. Mobile homes will be destroyed. Considerable damage to homes, businesses, and vehicles is likely and complete destruction is possible.

- * This tornadic thunderstorms will be near...
Dousman around 355 PM CST.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

TAKE COVER NOW!.....

&&

LAT...LON XXXX XXXX XXXX XXXX

TIME...MOT...LOC... XXXXZ XXXDEG 15KT XXXX XXXX

TORNADO...OBSERVED

TORNADO DAMAGE THREAT...CONSIDERABLE

HAIL..."SIZE"

WIND..."SPEED"



National Weather Service Milwaukee/Sullivan

Impact Based Warnings

Tornado Warning

Base

Considerable

Catastrophic



Impact Statement

You are in a life threatening situation. Flying debris may be deadly to those caught without shelter. Mobile homes will be destroyed. Considerable damage to homes, businesses and vehicles is likely and complete destruction is possible.

- Used exceedingly rarely.
- Direct observational evidence that a violent tornado is striking or about to strike a population footprint.



Impact Based Warnings

Tornado Warning

Base

Considerable

Catastrophic

Tornado Warning
National Weather Service Milwaukee/Sullivan
345 PM CST Feb 28 2017

...TORNADO EMERGENCY FOR SULLIVAN...

The National Weather Service in Milwaukee/Sullivan has issued a

- * Tornado Warning for...
Eastern Jefferson County in southeastern Wisconsin
- * Until 415 PM CST
- * Aa 345 PM CST...a confirmed large, and destructive tornado was observed near Jefferson, moving east at 15 mph.

TORNADO EMERGENCY for Sullivan. This is a
PARTICULARLY DANGEROUS SITUATION. TAKE COVER NOW!

HAZARD...Deadly tornado.

SOURCE...Weather spotters confirmed tornado.

IMPACT...You are in a life-threatening situation. Flying debris may be deadly to those caught without shelter. Mobile homes will be destroyed. Considerable damage to homes, businesses, and vehicles is likely and complete destruction is possible.

- * This tornadic thunderstorm will be near...
Sullivan around 400 PM CST.

PRECAUTIONARY/PREPAREDNESS MEASURES
TAKE COVER NOW!.....

..

TORNADO...OBSERVED
TORNADO DAMAGE THREAT...CATASTROPHIC
HAIL..."SIZE"IN

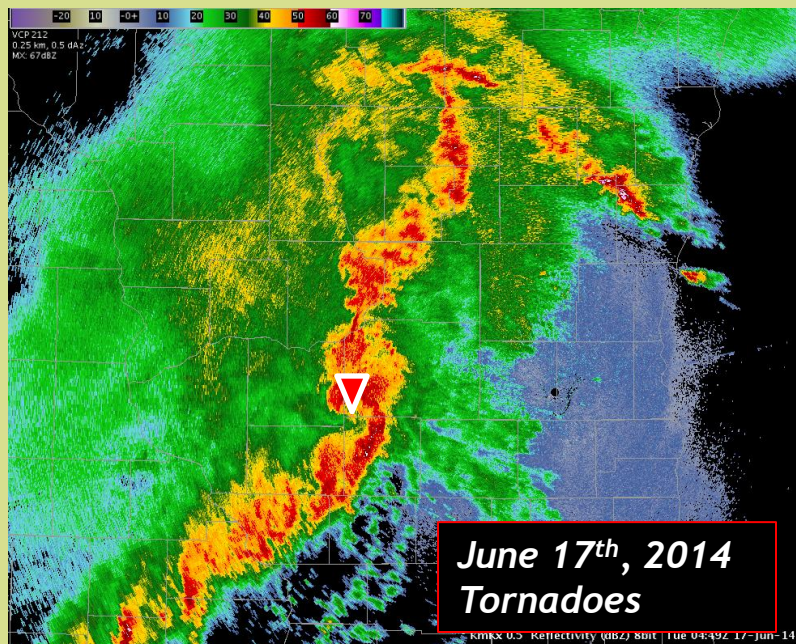


National Weather Service Milwaukee/Sullivan

Impact Based Warnings

Severe Thunderstorm Warning

Tornado Possible



- A severe thunderstorm has some potential for producing a tornado.
- Forecaster confidence is not high enough to issue a Tornado Warning.

Impact Statement

Intense thunderstorms lines can produce brief tornadoes and widespread significant wind damage. Although a tornado is not immediately likely, it is best to move to an interior room on the lowest floor of a building. These storms may cause serious injury and significant property damage.



National Weather Service Milwaukee/Sullivan

Impact Based Warnings

Severe Thunderstorm Warning

Tornado Possible

Severe Thunderstorm Warning
National Weather Service Milwaukee/Sullivan
330 PM CST Mon Feb 27 2017

The National Weather Service in Milwaukee/Sullivan has issued a

- * Severe Thunderstorm Warning for...
Western Jefferson County in southeastern Wisconsin
- Until 415 PM CST
- At 330 PM CST, severe thunderstorms were located along a line extending from Waterloo to near Milton, moving east at 35mph.

HAZARD...70 mph wind gusts and quarter sized hail.

SOURCE...Radar indicated.

IMPACT...Hail damage to vehicles is expected. Expect wind damage to roofs, siding, and trees.

* Locations impacted include...Jefferson, Sullivan...

PRECAUTIONARY/PREPAREDNESS MEASURES

Intense thunderstorms lines can produce brief tornadoes and widespread significant wind damage. Although a tornado is not immediately likely, it is best to move to an interior room on the lowest floor of a building. These storms may cause serious injury and significant property damage.

&&

LAT...LON XXXX XXXX XXXX XXXX
TIME...MOT...LOC... XXXXZ XXXDEG 15KT XXXX XXXX

TORNADO...POSSIBLE
~~TORNADO DAMAGE THREAT...~~
HAIL..."SIZE"IN
WIND..."SPEED"MPH



National Weather Service Milwaukee/Sullivan

Wisconsin Statewide Tornado Drill

Thursday, April 20th, 2017

- A test **Tornado Watch** will be issued at **1pm**.
- A test **Tornado Warning** will be issued at **1:45pm**.
- The test **Watch** and **Warning** will be cancelled at **2pm**.
- A test **Tornado Warning** will be issued at **6:45pm**.

Many Wisconsin radio and TV stations will participate in the drill. NOAA Weather Radio All Hazards will also issue alert messaging.

Wireless Emergency Alerts will not tone, but local municipalities will likely test outdoor warning sirens.

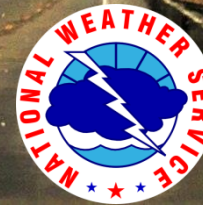
Please reserve this time to practice your own tornado and severe weather safety plans.

Rochelle, IL 4/9/15

© Tom Purdy

Twitter: @TomPurdyWI

Facebook.com/WisconsinWeatherPhotography



Educational
Communications
Board

Damaging Winds Safety

- Most frequent type of severe weather.
- Falling trees/limbs/light weight objects.
- **SEVERE**= speeds of 58mph or higher.



National Weather Service Milwaukee/Sullivan

Damaging Winds Safety

- Tents and campers are not safe places.
- Strong winds can come before rain starts w/thunderstorms.
- Know where shelter is.



National Weather Service Milwaukee/Sullivan



Damaging Winds Safety



30-40 mph

- Whole Trees in Motion



40-50 mph

- Twigs or small branches breaking



50-58 mph

- Branches/Small Limbs breaking



58-75 mph

- Threshold of visible structural damage
- Large branches broken



Over 75 mph

- Loss of roofing materials/roof
- Trees uprooted/trunks snapped



Flash Flood Safety

- Common Thunderstorm Killer.
- Heavy Thunderstorm Rains.
- Repeat Thunderstorms.
- Wet, Saturated Soils.
- Quicker impact in steep terrain and urban areas.



Flash flood damage from nearly 9 inches of rain overnight July 11/12, 2016 along HWY 13 in Ashland Co. near Highbridge, WI.



Flash Flood Safety

- Rivers can quickly rise.
- Storms may not be at your location.
- Get to higher ground.
- Don't drive through flooded roadways.



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Flash Flood Safety



WHEN
FLOODED
TURN AROUND
DON'T
DROWN

- Be especially cautious at night!
- 2 feet of water can float vehicles.



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Lightning Safety

Giant spark of electricity in the atmosphere.




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U.S. Lightning Fatalities 2006-2016






-277 -75

For more information:

<http://www.lightningsafety.noaa.gov/victims.htm>

Lightning Safety

Minocqua man hit by lightning in critical condition

 Recommend 0  Share 

Posted: Sep 07, 2016 11:38 AM CDT

MINOCQUA (WQOW) - A 66-year-old Minocqua man was rushed to a hospital early Tuesday after being struck by lightning as walked his dog outside his home, police said.

The man was identified as Bryan Jennings, a supervisor with the Town of Minocqua Board. He was hit by lightning around 6:30 a.m. on Tuesday as he walked his dog outside his home at Tanglewood Court.

"He was unresponsive when the medics arrived," Sgt. David Geiss said.

The lightning strike happened within 15 feet of his Tanglewood Court home as a thunderstorm with heavy lightning and rain rumbled through the area, lasting 90 minutes, Geiss said.

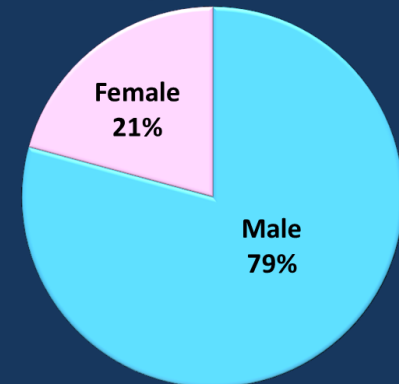
Jennings was taken to Howard Young Medical Center but his condition was not immediately known Tuesday afternoon.

His five-month-old dog was not hurt, Geiss said.

The storm dropped from up to 3 inches of rain in parts of the Northwoods, including more than an inch in Minocqua.

On Wednesday, he was hospitalized in critical condition at a Madison burn center, said a University Hospital spokeswoman.

Lightning Fatalities By Gender



Based on 313 cases from 2006 through 2015



Most Common Activities: Lightning Deaths

Fishing/Boating



Camping



Farming



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How can I stay safe?

SAFE!

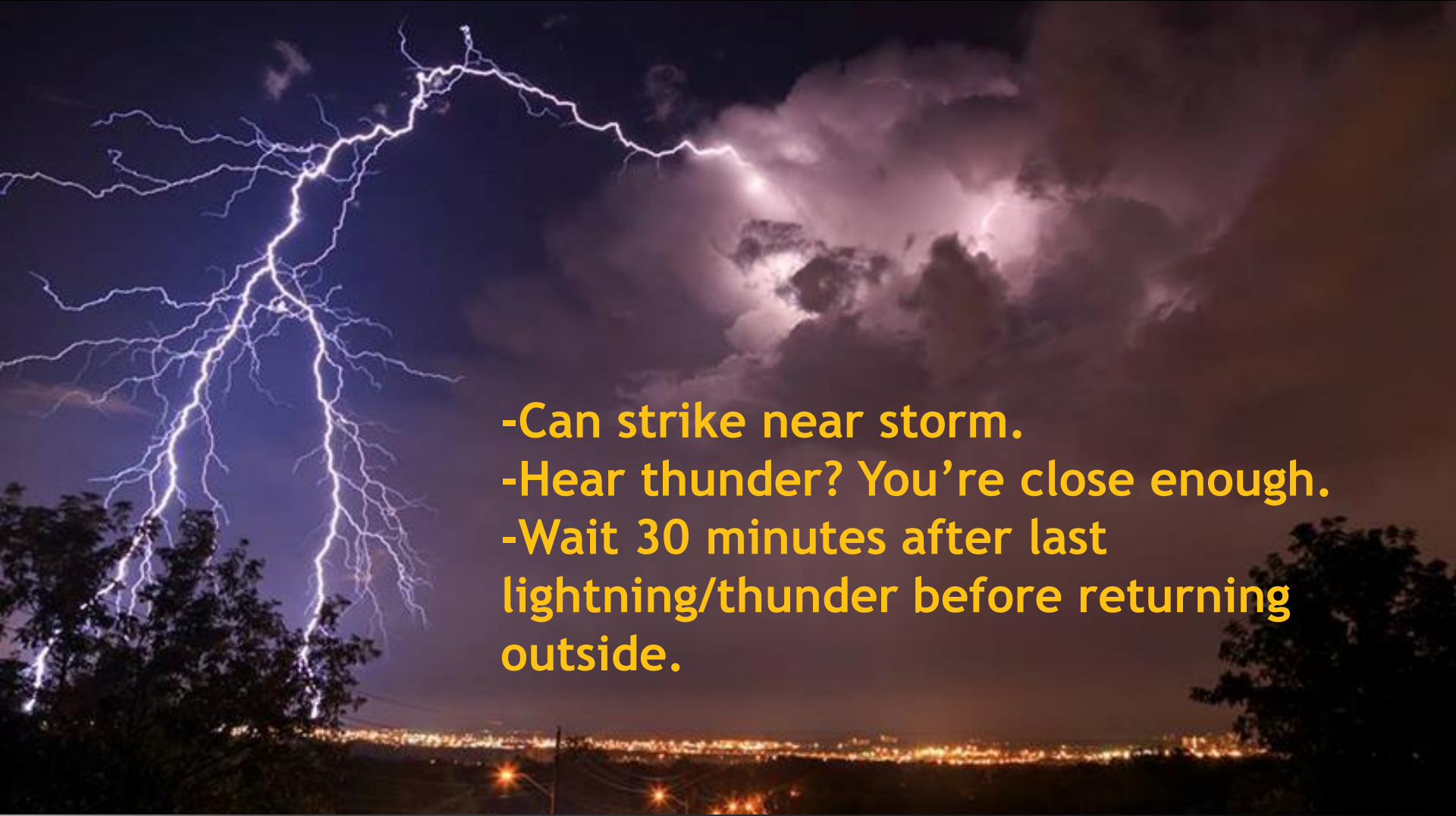


NOT SAFE!



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If the sky looks threatening, head to a safe shelter.

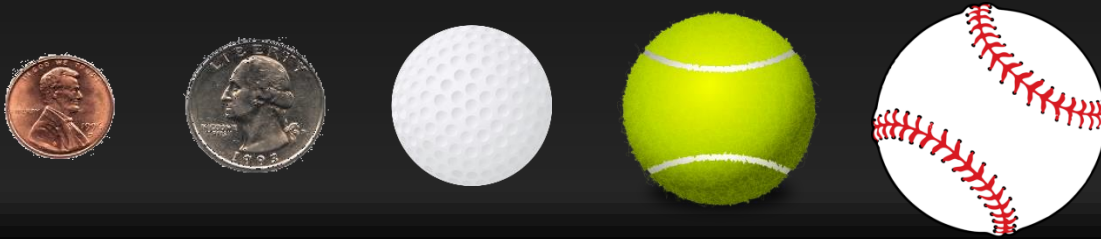
- 
- Can strike near storm.
 - Hear thunder? You're close enough.
 - Wait 30 minutes after last lightning/thunder before returning outside.



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Hail Safety

- Hail is considered severe at 1" diameter.
- Large hail can coincide with tornado activity.
- Report a size or compare to common objects.



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Hail Safety



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Hail Safety



Pea = $\frac{1}{4}$ "



Penny = $\frac{3}{4}$ "



Nickel = $\frac{7}{8}$ "

SEVERE



Quarter = 1"



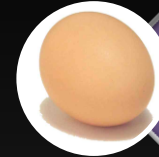
Half Dollar = $1\frac{1}{4}$ "



Walnut = $1\frac{1}{2}$ "



Golf Ball = $1\frac{3}{4}$ "



Egg = 2"



Pool Ball = $2\frac{1}{4}$ "



Tennis Ball = $2\frac{1}{2}$ "



Baseball = $2\frac{3}{4}$ "



Grapefruit = 4"



Softball = $4\frac{1}{2}$ "



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Summary

- Severe weather occurs in Wisconsin EVERY year.
- Being prepared for when severe weather occurs is important.
- Flash flooding, lightning and damaging winds can cause fatalities and injuries.
- Have multiple ways to receive severe weather information!



Thank You!



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Questions?

Please contact

Timothy.J.Halbach@noaa.gov

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